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Patent Record View

Wednesday, February 24 2010

THOMSON INNOVATION

Patent/Publication: WO2004025895A1 SECURE BROADCAST/MULTICAST SERVICE

Bibliography

DWPI Title

Candidates authenticating method for multimedia multicast/broadcast application e.g. videoconference, involves verifying that public key got from each candidate is owned by that person and is related with Internet protocol address

Original Title

SECURE BROADCAST/MULTICAST SERVICE

Assignee/Applicant

Standardized: **ERICSSON TELEFON AB L M AHONEN PASI UUSITALO ILKKA MAENTYLAE VESA-MATTI**

Original: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

Inventor

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Publication Date (Kind Code)

2004-03-25 (A1)

Application Number / Date

WO2002EP10400A / 2002-09-13

Priority Number / Date / Country

WO2002EP10400A / 2002-09-13 / EP

Abstract

Abstract

A method of authenticating candidate members 1 wishing to participate in an IP multicast via a communication network, where data sent as part of the multicast is to be encrypted using a Logical Key Hierarchy based scheme requiring that each candidate member submit a public key to a group controller. The method comprises, at the group controller 1, verifying that the public key received from each candidate member 1 is owned by that member and that it is associated with the IP address of that candidate member 1 by inspecting an interfaceID part of the IP address.

French Abstract

L'invention concerne un procédé d'authentification de membres candidats (1) souhaitant participer à une multidiffusion IP par un réseau de communication. Les données envoyées comme partie de la multidiffusion sont chiffrées au moyen d'une hiérarchie de clé logique basée sur le schéma exigeant que chaque membre candidat soumette une clé publique à un contrôleur de groupe. Ce procédé consiste, au niveau du contrôleur de groupe (1) à vérifier que la clé publique reçue de chaque membre candidat (1) est en la possession de ce membre et qu'elle est associée à l'adresse IP de ce membre candidat (1) par inspection d'une part ID d'interface de l'adresse IP.

Classes/Indexing

IPC

IPC Code(1-7) **H04L 9/32** H04L 29/06 H04L 9/00
(7)

| Current IPC-R | Invention | Version | Additional | Version |
|---------------|------------|----------|------------|---------|
| Advanced | H04L 9/08 | 20060101 | - | - |
| | H04L 9/32 | 20060101 | | |
| | H04L 29/06 | 20060101 | | |
| Core | H04L 9/08 | 20060101 | - | - |
| | H04L 9/32 | 20060101 | | |
| | H04L 29/06 | 20060101 | | |

| Subclass | - | - | - | - |
|----------------|------------------------|----------------------|------------|---------|
| Original IPC-R | Invention | Version | Additional | Version |
| Advanced | H04L 9/08 H04L 9/32 | 20060101 20060101 | - | - |
| Core | H04L 9/08 H04L 9/32 | 20060101 20060101 | - | - |
| Subclass | - | - | - | - |

ECLA

H04L000908B2 H04L000932 H04L002906S4B8 H04L002906S6C H04L002906S8C T04L002906S10C

DWPI Manual Codes

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Legal Status**INPADOC Legal Status**

| Gazette Date | Code | Description |
|--------------|-------|---|
| 2007-11-14 | WWG + | WIPO INFORMATION: GRANT IN NATIONAL OFFICE EP 2002807794 |
| 2006-08-14 | NENP | NON-ENTRY INTO THE NATIONAL PHASE IN: JP |
| 2006-08-14 | WWW - | WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE |
| 2006-07-27 | WWP + | WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE US 10527368 |
| 2006-01-04 | ENP | ENTRY INTO THE NATIONAL PHASE IN: US 2006168446 A1 |
| 2006-01-04 | WWE + | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE US 10527368 |
| 2005-06-29 | WWP + | WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE EP 2002807794 |
| 2005-04-08 | WWE + | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE EP 2002807794 |
| 2004-05-19 | 121 | EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION |
| 2004-03-25 | AL + | DESIGNATED COUNTRIES FOR REGIONAL PATENTS WO 2004025895 A1 GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG |
| 2004-03-25 | AK + | DESIGNATED STATES WO 2004025895 A1 AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW |

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Family**Family**

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Claims

Claims

Claims:1. A method of authenticating candidate members wishing to participate in an IP multicast via a communication network, where data sent as part of the 5 multicast is to be secured using a key revocation based scheme requiring that each candidate member submit a public key to a group controller, the method comprising: at the group controller, verifying that the public key received from each candidate member is owned by that member and that it is associated with the IP 10 address of that candidate member by inspecting an interfaceID part of the IP address.



Expand All Claims (14)

Description

Description



Expand Description

Citations

Citation

Citing Patents (0)



Expand Cited Patents (6)

Cited Non-patents (0)

Other

Attorney / Agent

LIND, Robert

Designated States

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW , **ARIPO patent:** GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW , **Eurasian patent:** AM AZ BY KG KZ MD RU TJ TM , **European patent:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR , **OAPI patent:** BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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